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SEP 19 2002
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please amend claims 2-9, 11-16 and 27-35 as follows:

2. {ONCE AMENDED} The [apparatus] product of claim 1, wherein the sizing agent is alkenyl succinic anhydride.
3. {ONCE AMENDED} The [apparatus] product of claim 2, wherein the sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.
4. {ONCE AMENDED} The [apparatus] product of claim 2, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.
5. {ONCE AMENDED} The [apparatus] product of claim 1, wherein the sizing agent provides the mat with decreased liquid penetrability four weeks after mat production.
6. {ONCE AMENDED} The [apparatus] product of claim 1, further comprising untreated clarifier sludge.
7. {ONCE AMENDED} The [apparatus] product of claim 6, wherein the sizing agent is alkenyl succinic anhydride.
8. {ONCE AMENDED} The [apparatus] product of claim 7, wherein the sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.
9. {ONCE AMENDED} The [apparatus] product of claim 7, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.
11. {ONCE AMENDED} The [apparatus] product of claim 10, wherein the alkenyl succinic anhydride has a dry basis add-on rate of from about 0.15% to about 0.4%.

12. {ONCE AMENDED} The [apparatus] product of claim 10, wherein the alkenyl succinic anhydride has a dry basis add-on rate of from about 0.2% to about 0.3%.

13. {ONCE AMENDED} The [apparatus] product of claim 10, wherein the alkenyl succinic anhydride provides the mat with decreased liquid penetrability four weeks after mat production.

14. {ONCE AMENDED} The [apparatus] product of claim 10, further comprising untreated clarifier sludge.

15. {ONCE AMENDED} The [apparatus] product of claim 14, wherein the sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.

16. {ONCE AMENDED} The [apparatus] product of claim 14, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.

27. {ONCE AMENDED} The [apparatus] product of claim 26, wherein the sizing agent is alkenyl succinic anhydride.

28. {ONCE AMENDED} The [apparatus] product of claim 26, wherein the sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.

29. {ONCE AMENDED} The [apparatus] product of claim 26, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.

30. {ONCE AMENDED} The [apparatus] product of claim 26, wherein the sizing agent provides the facer with decreased liquid penetrability four weeks after facer production.

31. {ONCE AMENDED} The [apparatus] product of claim 26, wherein the foam is a polyisocyanurate foam.

32. {ONCE AMENDED} The [apparatus] product of claim 26, wherein at least one of the first facer and the second facer further comprise untreated clarifier sludge.

33. {ONCE AMENDED} The [apparatus] product of claim 32, wherein the sizing agent is alkenyl succinic anhydride.

34. {ONCE AMENDED} The [apparatus] product of claim 32, wherein the sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.

35. {ONCE AMENDED} The [apparatus] product of claim 32, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.